

SEQUENCE LISTING

<110> Bayley, Hagan
Braha, Orit
Kasianowicz, John
Gouaux, Eric

<120> DESIGNED PROTEIN PORES AS COMPONENTS FOR BIOSENSORS

<130> 07917/062001

<140> US 09/122,583

<141> 1998-07-24

<150> US 60/053,737

<151> 1997-07-25

<160> 2

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 293

<212> PRT

<213> Staphylococcus aureus

<400> 1

Ala	Asp	Ser	Asp	Ile	Asn	Ile	Lys	Thr	Gly	Thr	Thr	Asp	Ile	Gly	Ser
1				5					10					15	
Asn	Thr	Thr	Val	Lys	Thr	Gly	Asp	Leu	Val	Thr	Tyr	Asp	Lys	Glu	Asn
			20					25					30		
Gly	Met	His	Lys	Lys	Val	Phe	Tyr	Ser	Phe	Ile	Asp	Asp	Lys	Asn	His
		35					40					45			
Asn	Lys	Lys	Leu	Leu	Val	Ile	Arg	Thr	Lys	Gly	Thr	Ile	Ala	Gly	Gln
	50					55					60				
Tyr	Arg	Val	Tyr	Ser	Glu	Gly	Ala	Asn	Lys	Ser	Gly	Leu	Ala	Trp	
	65				70				75					80	
Pro	Ser	Ala	Phe	Lys	Val	Gln	Leu	Gln	Leu	Pro	Asp	Asn	Glu	Val	Ala
				85					90					95	
Gln	Ile	Ser	Asp	Tyr	Tyr	Pro	Arg	Asn	Ser	Ile	Asp	Thr	Lys	Glu	Tyr
			100					105					110		
Met	Ser	Thr	Leu	Thr	Tyr	Gly	Phe	Asn	Gly	Asn	Val	Thr	Gly	Asp	Asp
		115					120						125		
Thr	Gly	Lys	Ile	Gly	Gly	Leu	Ile	Gly	Ala	Asn	Val	Ser	Ile	Gly	His
	130					135						140			
Thr	Leu	Lys	Tyr	Val	Gln	Pro	Asp	Phe	Lys	Thr	Ile	Leu	Glu	Ser	Pro
	145				150					155					160
Thr	Asp	Lys	Lys	Val	Gly	Trp	Lys	Val	Ile	Phe	Asn	Asn	Met	Val	Asn
				165					170					175	
Gln	Asn	Trp	Gly	Pro	Tyr	Asp	Arg	Asp	Ser	Trp	Asn	Pro	Val	Tyr	Gly
			180					185					190		
Asn	Gln	Leu	Phe	Met	Lys	Thr	Arg	Asn	Gly	Ser	Met	Lys	Ala	Ala	Asp
		195					200					205			
Asn	Phe	Leu	Asp	Pro	Asn	Lys	Ala	Ser	Ser	Leu	Leu	Ser	Ser	Gly	Phe
	210					215						220			
Ser	Pro	Asp	Phe	Ala	Thr	Val	Ile	Thr	Met	Asp	Arg	Lys	Ala	Ser	Lys
	225				230					235					240
Gln	Gln	Thr	Asn	Ile	Asp	Val	Ile	Tyr	Glu	Arg	Val	Arg	Asp	Asp	Tyr
			245						250					255	
Gln	Leu	His	Trp	Thr	Ser	Thr	Asn	Trp	Lys	Gly	Thr	Asn	Thr	Lys	Asp
			260					265					270		

Lys Trp Thr Asp Arg Ser Ser Glu Arg Tyr Lys Ile Asp Trp Glu Lys
 275 280 285
 Glu Glu Met Thr Asn
 290

<210> 2
 <211> 40
 <212> PRT
 <213> Staphylococcus aureus

<400> 2
 Glu Tyr Met Ser Thr Leu Thr Tyr Gly Phe Asn Gly Asn Val Thr Gly
 1 5 10 15
 Asp Asp Thr Gly Lys Ile Gly Gly Leu Ile Gly Ala Asn Val Ser Ile
 20 25 30
 Gly His Thr Leu Lys Tyr Val Gln
 35 40